



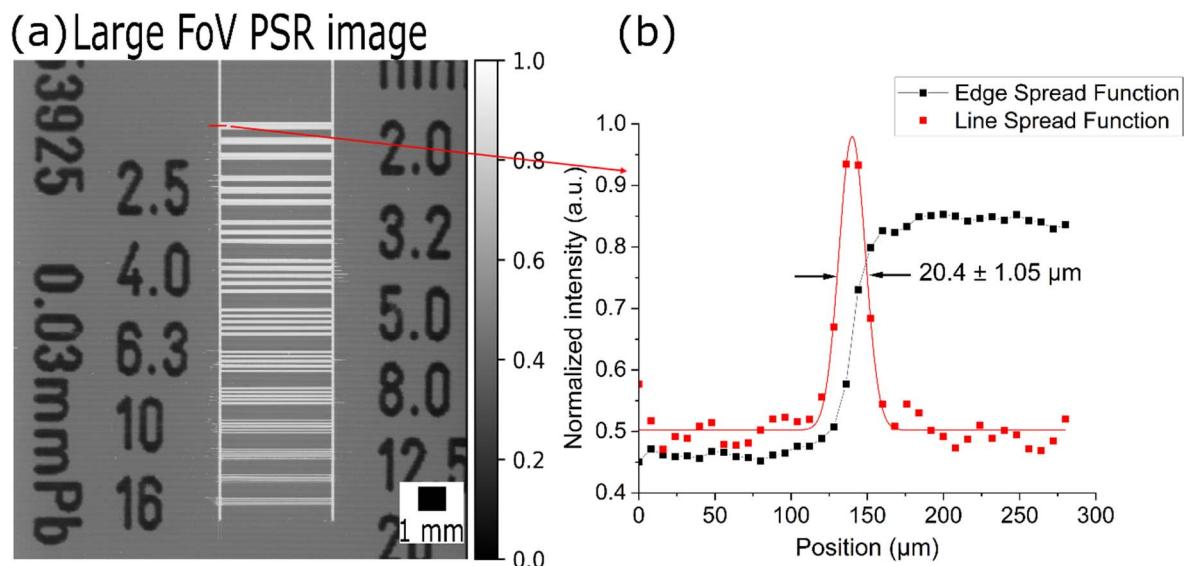
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**Supporting information for article:**

**Staircase array of inclined refractive multi-lenses for large field of view pixel super-resolution scanning transmission hard X-ray microscopy**

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**S1. The spatial resolution evaluation in the direction perpendicular to the scanning direction.**

**Figure S1** (a) Large FoV PSR-STHXM image (pixel size  $300 \text{ nm} \times 8.03 \mu\text{m}$ ). (b) Spatial resolution evaluation by the edge spread function of the profile on the red line in (a). The spatial resolution is  $20.4 \pm 1.05 \mu\text{m}$  (FWHM).